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Amendments to Claims

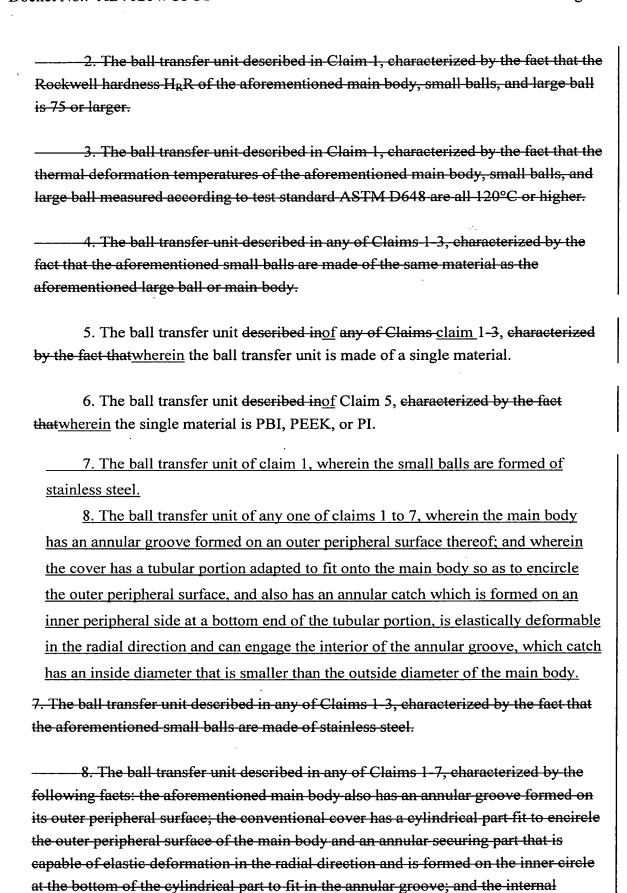
1. A ball transfer unit comprising:

- a) a main body having a seat surface recessed in a semispherical shape;
- e) a plurality of small balls which are each in freely rolling contact with the seat surface of the main body,
- f) a large ball which is in freely rolling contact with the plurality of small balls, and
- g) a cover which is attached to the main body and is adapted for holding the large ball and for holding the small balls between the large ball and the seat surface of the main body;
- wherein at least the main body and the large ball are made of a material selected from among PAI, PBI, PCTFE, PEEK, PEI, PI, PPS, melamine resins, aromatic polyamide resins, aluminum oxide, zirconium oxide and silicon nitride.
- 2. The ball transfer unit of claim 1, wherein the main body, the small balls, and the large ball each have a Rockwell hardness H_RR of at least 75.
- 3. The ball transfer unit of claim 1, wherein the main body, the small balls and the large ball each have a heat deflection temperature, according to the ASTM D648 test, of at least 120°C.
- 4. The ball transfer unit of claim 1, wherein the small balls are formed of the same material as the main body or the large ball.
- 1. A ball transfer unit characterized by the following facts: the ball transfer unit has a main body having a seat surface recessed in a semispherical shape, multiple small balls rollingly in contact with the seat surface of the main body, a large ball rollingly in contact with the multiple small balls, and a cover installed on the main body to hold the large ball and to hold small balls between the large ball and the seat surface of the main body;

With at least the aforementioned main body and the aforementioned large ball being made of any material selected from PAI, PBI, PCTFE, PEEK, PEI, PI, PPS, melamine resin, aromatic polyamide resin, aluminum oxide, zirconium oxide, and silicon nitride.

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diameter of the securing part is set to be smaller than the outer diameter of the main body.

- 9. The ball transfer unit <u>of described in any of Claimsclaim</u> <u>11-8</u>, <u>further comprising characterized by also</u> having a through hole that penetrates through the main body <u>and has itswherein</u> one end <u>being</u> opened on the <u>aforementioned</u> seat surface.
- 10. A ball table used for supporting a transported material, the ball table being comprised of a plurality of ball transfer units according to any one of claims 1 to 7 and a supporting member in which the ball transfer units are fixed at predetermined intervals. A ball table used for supporting a transported material characterized by having multiple ball transfer units described in any of Claims 1-7 and a support part whereon the ball transfer units are fixed at prescribed intervals.
- 11. The ball table of claim 10, wherein the transported material is a semiconductor wafer or a glass substrate for a flat panel display.

 The ball table described in Claim 10, characterized by the fact that the transported material is a semiconductor wafer or glass substrate for a flat panel display.